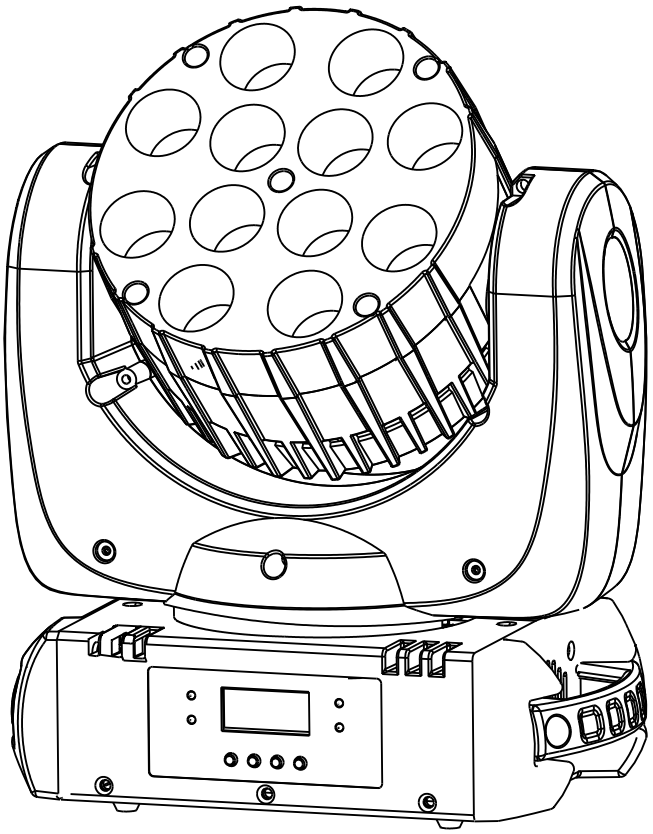
BT-W12L10 WASH



ENGLISH

Operation Manual

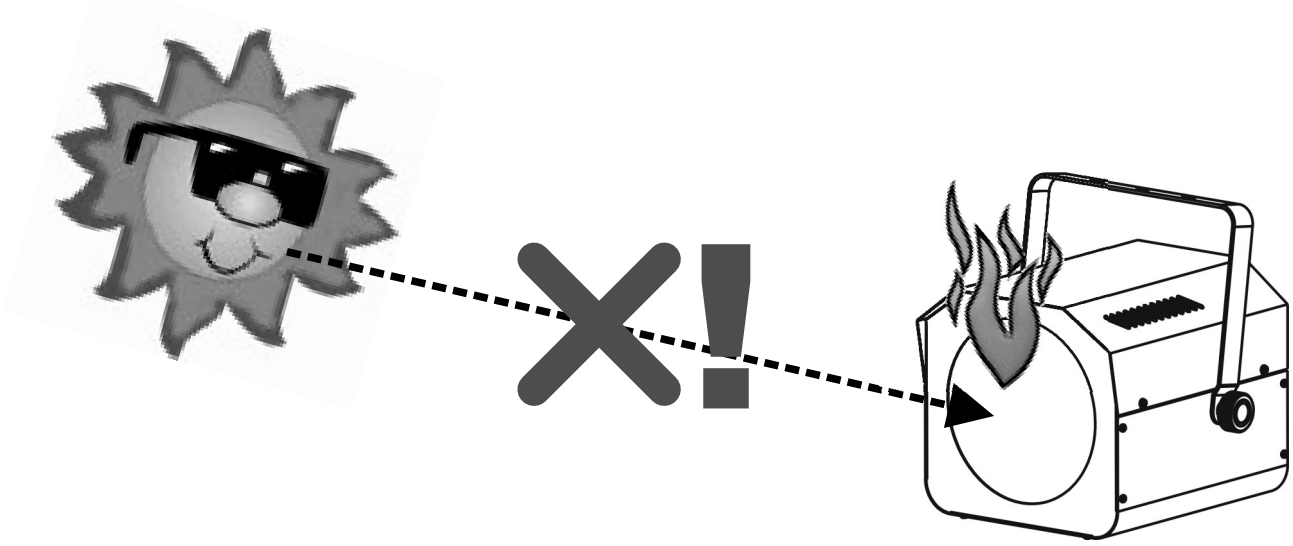
WWW.BRITEQ-LIGHTING.COM

CE

Version: 1.0

BRITEQ® LIGHT RESEARCH

DANGER ~ GEVAAR ~ GEFAHR ~ PELIGRO ~ PERIGO



WARNING: DANGER! never expose the lens to direct sunlight, even for a short period. This may damage the light effect or even cause fire!

ATTENTION: DANGER! n'exposez jamais la lentille directement aux rayons de soleil, même pendant un bref instant. Ceci peut endommager l'intérieur de l'appareil ou même causer un incendie !

OPGELET : GEVAAR ! stel de lens nooit bloot aan direct zonlicht, zelfs gedurende een korte periode. Dit kan het toestel beschadigen en zelfs brand veroorzaken!

WARNUNG: GEFAHR! Setzen sie die Linse niemals direkter Sonneneinstrahlung aus, auch nicht für eine kurze Zeit ! Die direkte Sonneneinstrahlung kann das Gerät zerstören oder zum brennen bringen!

ADVERTENCIA: ¡PELIGRO! ¡nunca exponga la lente a la luz solar directa, aún durante un período corto! ¡Esto puede dañar el efecto de luz o incluso causar el fuego!

AVISO: PERIGO! Nunca exponha as lentes directamente à luz solar, mesmo que por pouco tempo! Isto pode danificar o efeito luminoso ou mesmo provocar um incêndio!

EN - DISPOSAL OF THE DEVICE
Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.

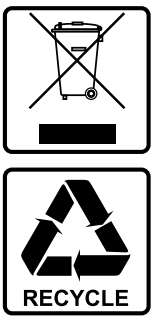
FR - DÉCLASSER L'APPAREIL
Débarrassez-vous de l'appareil et des piles usagées de manière écologique, conformément aux dispositions légales de votre pays.

NL - VERWIJDEREN VAN HET APPARAAT
Verwijder het toestel en de gebruikte batterijen op een milieuvriendelijke manier conform de in uw land geldende voorschriften.

DU - ENTSORGUNG DES GERÄTS
Entsorgen Sie das Gerät und die Batterien auf umweltfreundliche Art und Weise gemäß den Vorschriften Ihres Landes.

ES - DESHACERSE DEL APARATO
Reciclar el aparato y pilas usadas de forma ecologica conforme a las disposiciones legales de su pais.

PT - COMO DESFAZER-SE DA UNIDADE
Tente reciclar a unidade e as pilhas usadas respeitando o ambiente e em conformidade com as normas vigentes no seu país.



OPERATION MANUAL

Thank you for buying this BRITEQ product. To take full advantage of all possibilities and for your own safety, please read these operating instructions very carefully before you start using this unit.

FEATURES

This unit is radio-interference suppressed. This product meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

- A remarkably small and super lightweight moving wash for rental companies, stage and discotheques
- Based on 12pcs 10W 4in1 CREE-leds
- Amazingly bright beam (4200lux @ 5m) compared to the size of the unit.
- High speed pan/tilt movements assure dynamic show programming.
- Tight 20° beam angle for special beam effects
- Excellent color mixing compared to the competition
- Calibrated color macros (Lee filters standard) for easy and fast show programming
- Excellent built-in programs for wonderful, ever changing, light shows:
  - DMX-control: 9ch, 12ch, 16ch and 28 channels
  - Standalone: sound activated with internal mic
  - Master/slave: wonderful synchronized shows in standalone mode
  - DMX-master/slave: thanks to this revolutionary new feature several BT-W12L10 units, working in master/slave, can still be controlled by 1 or 4 DMX-channels! (even while connected on a DMX line, optional mini DMX splitter required)
- Two different default settings, easy for rental companies:
  - PRO-defaults: basic settings (adjustable) for use on professional DMX-controllers.
  - AUTO-defaults: basic settings (adjustable) for easy master/slave use.
- Automatic X/Y re-positioning
- Optional remote controllers available: wired CA8 or wireless RF8-SET (replaced by RF/DMX converter)
- Easy software updates via special software upgrade unit
- Alphanumeric LCD-display for easy menu navigation
- High efficiency and low power consumption, only 150W
- Equipped with omega brackets for fast installation

BEFORE USE

- Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
- **Important:** This device left our factory in perfect condition and well packaged. It is absolutely necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.
- Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.

Check the contents:

Check that the carton contains the following items:

- Operating instructions
- BT-W12L10
- Omega brackets
- Power cable

SAFETY INSTRUCTIONS:

CAUTION: To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.

The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the use or the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

This symbol means: indoor use only

This symbol means: Read instructions

This symbol determines: the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than 1 meters

The device is not suitable for direct mounting on normally flammable surfaces. (suitable only for mounting on non-combustible surfaces)

CAUTION: Do not stare at operating lamp.
May be harmful to the eyes.

- To protect the environment, please try to recycle the packing material as much as possible.
- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.
- This unit is for indoor use only.
- Don’t place metal objects or spill liquid inside the unit. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- Locate the fixture in a well ventilated spot, away from any flammable materials and/or liquids. The fixture must be fixed at least 50cm from surrounding walls.
- Don’t cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum safe ambient temperature is 40°C. Don’t use this unit at higher ambient temperatures.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Allow the device about 10 minutes to cool down before to start servicing.
- Always unplug the unit when it is not used for a longer time or before to start servicing.
- The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.
- Check that the available voltage is not higher than the one stated on the unit.
- The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Never let the power-cord come into contact with other cables!
- This fixture must be earthed in order to comply with safety regulations.
- Don’t connect the unit to any dimmer pack.
- Always use an appropriate and certified safety cable when installing the unit.
- In order to prevent electric shock, do not open the cover. There are no user serviceable parts inside.
- **Never** repair a fuse or bypass the fuse holder. **Always** replace a damaged fuse with a fuse of the same type and electrical specifications!
- In the event of serious operating problems, stop using the fixture and contact your dealer immediately.

- The housing and the lenses must be replaced if they are visibly damaged.
- Please use the original packing when the device is to be transported.
- Due to safety reasons it is prohibited to make unauthorized modifications to the unit.

Important: Never look directly into the light source! Don't use the effect in the presence of persons suffering from epilepsy.

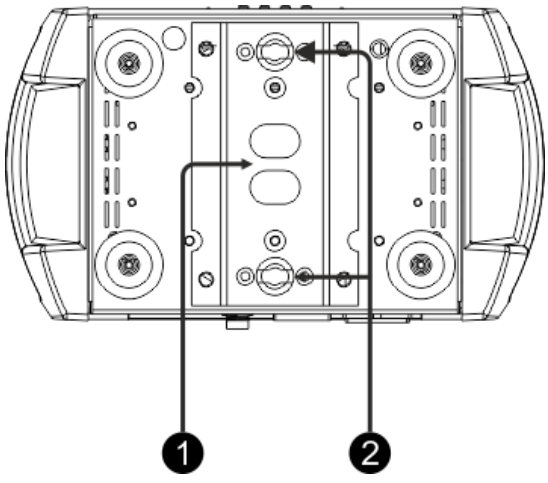
OPERATING INSTRUCTIONS

- Once connected to the mains the device starts running.
- Always unplug the unit when it is not used for a longer time or before to start servicing.
- In the event of serious operating problems, stop using the fixture and contact your dealer immediately.
- **Important:** Never look directly into the light source! Don't use the effect in the presence of persons suffering from epilepsy.

OVERHEAD RIGGING

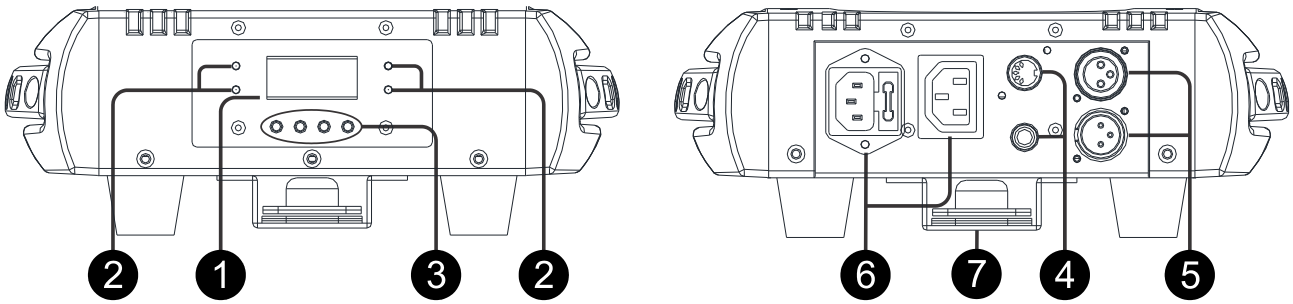
- **<u>Important:</u> The installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be used, the installed device should be inspected regularly for safety.**
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the fixture in a well ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed **at least 50cm** from surrounding walls.
- The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
- Before rigging make sure that the installation area can hold a minimum point load of 10times the device's weight.
- Always use a certified safety cable (number 3 on the picture) that can hold 12 times the weight of the device when installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.
- The device should be well fixed; a free-swinging mounting is dangerous and may not be considered!
- Don't cover any ventilation openings as this may result in overheating.
- The operator has to make sure that the safety-relating and machine-technical installations are approved by an expert before using them for the first time. The installations should be inspected every year by a skilled person to be sure that safety is still optimal.

1. **Optional safety cable**
2. **Special omega clamp (included)**



HOW TO SET UP THE UNIT

CONTROL PANEL:



1. **DISPLAY** shows the various menus and the selected functions.
2. **LEDS**

DMX	On	DMX input present
MASTER	On	Master mode
SLAVE	On	Slave mode
SOUND	Flashing	Sound activation

3. **BUTTONS**

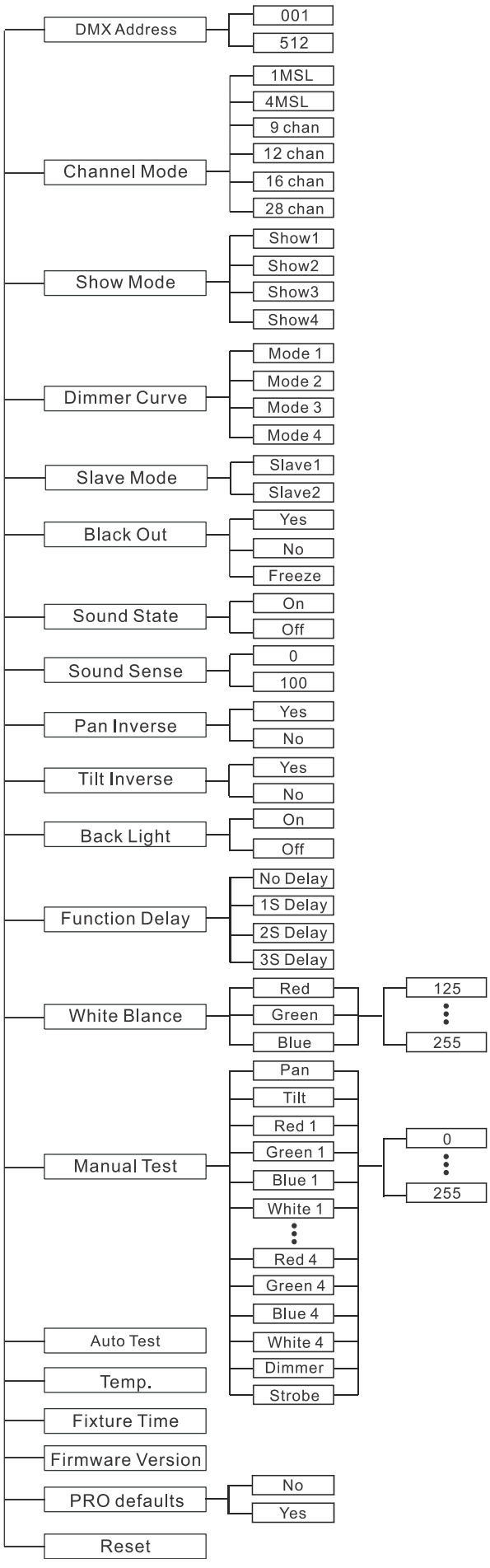
MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To confirm the selected functions

4. **REMOTE CONTROL INPUT:** Used to connect a simple CA-8 hand controller or RF8 wireless controller while the unit is used in standalone or master/slave mode.
5. **DMX INPUT/OUTPUT:** used for DMX512 linking. Use good quality 3pin XLR M/F balanced cable to link the units together.
6. **MAINS INPUT AND OUTPUT:** with IEC socket and integrated fuse holder, connect the supplied mains cable here, you can daisy chain up to 10 units.
7. **OMEGA CLAMP:** special base to fix the included omega quick clamp.

MAIN MENU:

- To select any of the pre-set functions, press the **MENU** button up to when the required one is shown on the display.
- Select the function with the **ENTER** button. The display will blink.
- Use **DOWN** and **UP** button to change the mode.
- Once the required mode has been selected, press the **ENTER** button to select. After 8 seconds the display will automatically return to the main functions without any change.

To go back to the functions without any change press the **MENU** button. The main functions are shown on the right.



DMX Address

Used to set the starting address in a DMX setup.

- Press the MENU button until "**DMX address**" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP buttons to change the DMX512 address.
- Once the correct address shows on the display, press the ENTER button to save it.
  (or automatically return to the main functions without any change after 8 seconds)

To go back to the functions without any change press the MENU button again.

Channel Mode

- Press the MENU button until "**Channel mode**" is shown on the display.
- Press the ENTER button so the display starts blinking.
- Use DOWN and UP button to select the one of the available dmx modes.
- Once the mode is selected, press the ENTER button to setup
  (Or automatically return to the main functions without any change after 8 seconds.)

To go back to the functions without any change press the MENU button again.

Show Mode

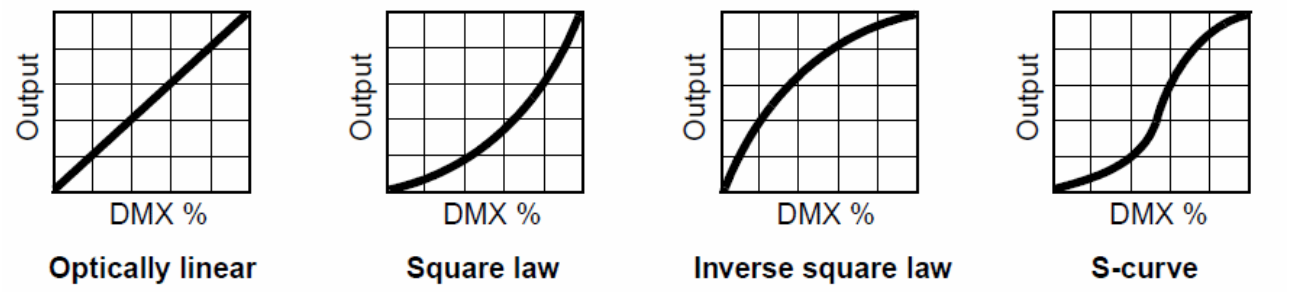
Used to choose the Show mode when used in standalone or master/slave mode.

- Press the MENU button until "Show mode" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP buttons to select "**Show 1**", "**Show 2**", "**show 3**" or "**show 4**" mode.
- Once the right mode shows on the display, press the ENTER button to save it.
  (or automatically return to the main functions without any change after 8 seconds)

To go back to the functions without any change press the MENU button again.

Show 1 mode - Fixture is placed **on the floor**. Tilt movement angle 210°.
Show 2 mode - Fixture is fixed **under ceiling**. Tilt movement angle 90°.
Show 3 mode - Fixture is placed **on the stage, in front of the audience**
The spot is always projecting to the audience's direction; i.e. in front of the stage. Pan movement angle (left to right to left): 160°. Tilt movement angle: 90° (60° above horizon; 30° below horizon.)
Show 4 mode - Fixture is fixed **under ceiling**.
The spot is mainly projecting in front of the stage. Pan movement angle (left to right to left):160°. Tilt movement angle: 90° (vertically, front 75°; back 15°)

Dimmer Curve
This function provides four dimming options:



- Press the MENU button until "Show mode" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP buttons to select "**Mode 1**", "**Mode 2**", "**Mode 3**" or "**Mode 4**".
- Once the right mode shows on the display, press the ENTER button to save it.
  (or automatically return to the main functions without any change after 8 seconds)

To go back to the functions without any change press the MENU button again.

Mode 1 (LINEAR): the increase in light intensity appears to be linear as DMX value is increased.
Mode 2 (SQUARE LAW): light intensity control is finer at low levels and coarser at high levels.
Mode 3 (INVERSE SQUARE LAW): light intensity control is coarser at low levels and finer at high levels.
Mode 4 (S-CURVE): light intensity control is finer at low and high levels and coarser at medium levels.

Whichever Dimmer Curve option you select, you can choose between FAST or SMOOTH dimming settings:

- FAST is the default setting. It gives a virtually instantaneous reaction when you dim from one intensity to another, but dimming slowly from one intensity to another may appear slightly uneven.
- The SMOOTH setting gives smoother dimming during slow changes in intensity, but it limits the speed of dimming changes slightly. This makes it ideal for slow, smooth dimming, but a short time-lag may be noticeable if you try to dim quickly from one intensity to another.

Slave Mode
Used to make the slave unit work in opposite to the master or to work in complete sync.

- Press the MENU button until "Slave mode" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP button to select "**Slave 1**" (normal) or "**Slave 2**"opposite.
- Once the mode is selected, press the ENTER button to save it.
  (or automatically return to the main functions without any change after 8 seconds)

To go back to the functions without any change press the MENU button again.

Blackout Mode
Blackout mode: when no DMX-signal is detected, the unit goes in blackout and waits for the DMX-signal.
No blackout mode: when no DMX-signal is detected, the unit automatically switches to standalone mode.
Freeze mode: when no DMX-signal is detected, the unit freezes with the latest dmx values received and waits for the DMX-signal.

- Press the MENU button until "Black out" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP button to select "**Yes**" (yes blackout), "**No**" (no blackout) mode, "**Freeze**" mode.
- Once the mode has been selected, press the ENTER button to save it.
  (or automatically return to the main functions without any change after 8 seconds)

To go back to the functions without any change press the MENU button again.

Sound State

The unit works to rhythm of the beat when used in standalone or master/slave mode

- Press the MENU button until "Sound State" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP button to select "**On**" or "**Off**" mode.
- Once the mode is selected, press the ENTER button save it.

To go back to the main menu without any change press the MENU button shortly.
If you want to go back to normal running mode: press the MENU button for about 2 seconds.

Sound Sense

Used to set the sensitivity of the internal microphone

- Press the MENU button until "Sound Sense" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP button to select a value between "**0**" (very low sensitivity) and "**100**" (high sensitivity).
- Once the mode is selected, press the ENTER button save it.

To go back to the main menu without any change press the MENU button shortly.
If you want to go back to normal running mode: press the MENU button for about 2 seconds.

Pan Inversion

Normal: Panning movement is not inverted.
Pan inversion: Panning movement is inverted

- Press the MENU button until "Pan inverse" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP button to select "**No**" (normal) or "**Yes**" (pan inversion) mode.
- Once the mode has been selected, press the ENTER button to save it.
  (or automatically return to the main functions without any change after 8 seconds)

To go back to the functions without any change press the MENU button again.

Tilt Inversion

Normal: Tilt movement is not inverted.
Tilt inversion: tilt movement is inverted

- Press the MENU button until "Tilt inverse" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP buttons to select "**No**" (normal) or "**Yes**" (tilt inversion) mode.
- Once the mode has been selected, press the ENTER button to save it.
  (or automatically return to the main functions without any change after 8 seconds)

To go back to the functions without any change press the MENU button again.

Backlight

Backlight on: display is always on.
Backlight off: display is off when not used.

- Press the MENU button until the display shows "**Backlight**".
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP buttons to select "**On**" (display always on) or "**Off**" (display off when not used).
- Once the mode has been selected, press the ENTER button to save it.
  (or automatically return to the main functions without any change after 8 seconds)

To go back to the functions without any change press the MENU button again.

Function Delay

On the Function channel (CH7 or CH8) you can select some special functions, like "blackout during movement". With this option you can select the delay before a selected function becomes active.

IMPORTANT INFORMATION: *the function delay can only be set to zero seconds (no Delay) when you are using a DMX-controller or DMX-software using presets for the DMX-values of the special functions. Never use "no Delay" while using a simple DMX-controller with faders to set the functions manually!*

- Press the MENU button until "Function Delay" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP button to select a value between "**no Delay**" and "**3s Delay**"
- Once the delay is selected, press the ENTER button save it.

To go back to the main menu without any change press the MENU button shortly.
If you want to go back to normal running mode: press the MENU button for about 2 seconds.

White balance
It allows the user to fine tune the three colors to achieve the perfect white
- Press the MENU button until the display shows "**White balance**".
- Press the ENTER button, the display starts blinking.
- If you want to change the default settings, press the DOWN and UP buttons to select "**RED**", "**BLUE**" or "**GREEN**".
- Press ENTER and modify the values to set a specific color temperature, confirm with ENTER. (or automatically return to the main functions without any change after 8 seconds)

To go back to the functions without any change press the MENU button again.

Dimmer Calibrate
Due to tolerances in the production process, not all LEDs have exactly the same brightness, therefore you can use this option to match the Brightness of different machines.
- Press the MENU button until "Dimmer Calibrat" is shown on the display.
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP buttons to select a value between "50" (lowest brightness) and "100" (highest brightness).
- Once the brightness is selected, press the ENTER button save it.

To go back to the main menu without any change press the MENU button shortly.
If you want to go back to normal running mode: press the MENU button for about 2 seconds.

Manual Test
Used to manually check all functions of the unit.
- Press the **MENU** button to show "**Manual test**" on the display.
- Press the **ENTER** button, the display starts blinking.
- Use the **DOWN** and **UP** button to select the "**Pan**", "**Tilt**", "**Dimmer**", "**Strobe**" and "**Red**", "**Green**", "**Blue**", **"White"** for every cells.
- Press the **ENTER** button, the display starts blinking.
- Use the **DOWN** and **UP** button adjust the value from **0** to **255** to test the unit.

To go back to the main menu without any change press the MENU button shortly.
If you want to go back to normal running mode: press the MENU button for about 2 seconds.

Temp.
Used to show the temperature inside the unit
- Press the MENU button until the display shows "**Temp**.".
- Press the ENTER button to show the internal temperature of the unit on the display.
- To go back to the functions press the MENU button again.

If you want to go back to normal running mode: press the MENU button for about 2 seconds.

When the temperature of the LED goes up to 50°, the display shows:

When the temperature of the LED is over 60°, the LED will be switched off while the display will shows:

Fixture time
Used to show the number of working hours of the unit.
- Press the MENU button until **"Fixture time"** is blinking on the display.
- Press the ENTER button to show the number of working hours in the display.

To go back to the functions press the MENU button.

Firmware version
Used to show the Firmware version installed in the unit
- Press the MENU button until " **Firmware version**" is blinking on the display.
- Press the ENTER button to show the software version on the display.

To go back to the functions press the MENU button.

Defaults

Used to choose between 2 sets of default settings, often used by rental companies:

➔PRO-defaults: basic settings for use on professional DMX-controllers.

➔AUTO-defaults: basic settings for easy master/slave use.

- Press the MENU button until the display shows "**Defaults**".
- Press the ENTER: to avoid accidental loss of your settings, the display shows "**Confirm?**":
  - Use DOWN and UP buttons to select "**Yes**" or "**No**" and confirm by pressing the ENTER button.
  - When you select "**Yes**", you have the choice between 2 options, each with their own settings:

Settings	PRO def	AUTO def
Channel mode	12ch	4MSL
Slave Mode	Slave 1	Slave 1
Blackout Mode	Freeze	No
Sound State	Off	On
Sound Sense	90	90
Pan Inverse	No	No
Tilt Inverse	No	No
Backlight	No	Yes
Function Delay	3s	3s
Dimmer curve	Mode1	Mode1

Starting from these defaults you can easily make your additional settings. The other setup parameters remain unchanged.

If you want to go back to normal running mode: press the MENU button for about 2 seconds.

Reset

Used to force a reset of the unit.

- Press the MENU button until "**Reset**" is blinking on the display.
- Press the ENTER to reset all channels to their standard position.
- To go back to the functions press the MENU button.

Please also check the chapter about the DMX-channel configuration of the unit to find out how you can force a reset by DMX.

Offset Adjust

Used to adjust the home position:

If you're not already in the setup menu, just press the MENU button shortly to enter the setup menu ("DMX Address" is shown on the display)

- Now press the ENTER button for at least 5 seconds to go into offset mode.
- Use DOWN and UP buttons to select the pan or the tilt
- Press the ENTER button, the display starts blinking.
- Use DOWN and UP buttons to adjust the home position
- Press the ENTER button to confirm your setting

To go back to the functions without any change press the MENU button again.

If you want to go back to normal running mode: press the MENU button for about 2 seconds, the new offset parameters for the home position is preserved in flash memory.

ELECTRICAL INSTALLATION + ADDRESSING

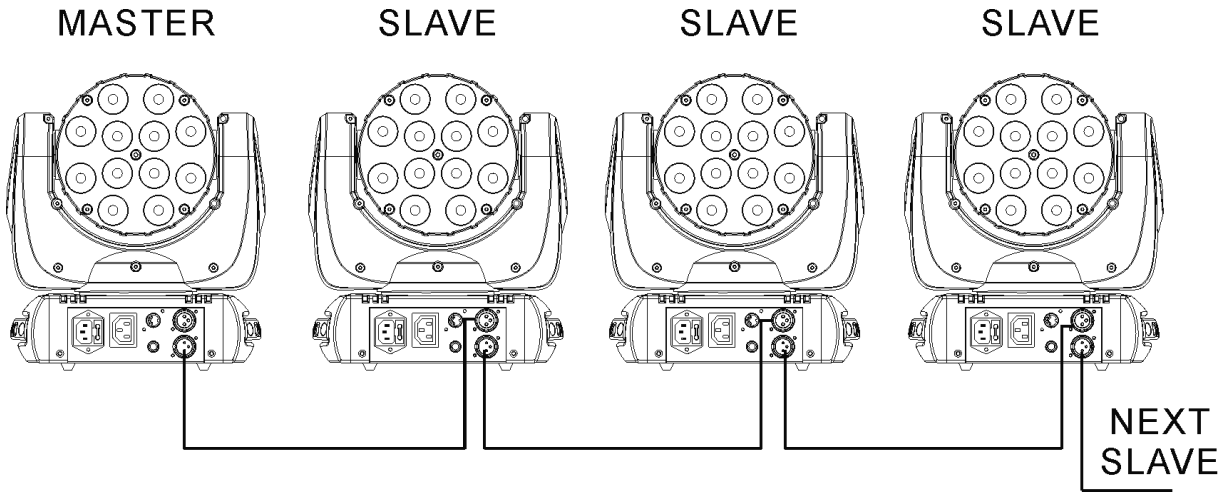
⚠ **Important: The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.**

Every time you turn the unit on, it will show "**BT-W12L10**" on the display and move all the motors to their 'home' position and you may hear some noises for about 20 seconds. After that the unit will be ready to receive DMX signal or run the built-in programs.

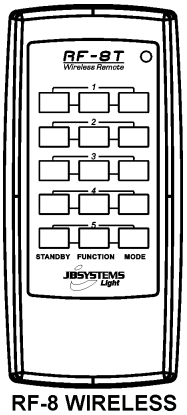
YOU CAN OPERATE THE UNIT IN THREE WAYS:

- By master/slave built-in preprogram function
- By CA-8 easy controller
- By RF8, this unit is now replaced by the new RF/DMX CONVERTER (press for more information)
- By universal DMX controller (1MSL, 4MSL, 9CH, 12CH, 16CH and 28CH DMX mode)

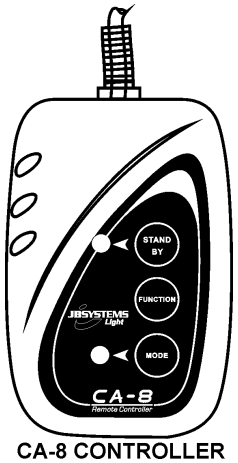
- **BY MASTER/SLAVE BUILT-IN PREPROGRAM FUNCTION:**
  Select this function when you want an instant show. By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. Its DMX input will have nothing plugged into it, and its master-LED will be constantly on and sound-LED will flash to the music.
  Important! This function only works when the blackout mode in the menu of the master is set to OFF, otherwise nothing will happen! Read more about this option in the "Main Menu" paragraph.
  - **MASTER has 4 built-in shows:** You can select **show 1**, **show 2**, **show 3** or **show 4** directly in the menu of the master.
  - **SLAVES have 2 working options:** The other units are set to slave mode (slave-LED is constantly on). In order to create a great light show you can introduce contrast movements (pan/tilt of slave is inversed) → In the menu of the slave units you can go to option "**Slave mode**" and select:
    - **"Slave 1"→ Normal slave:** slave works in sync with the master.
    - **"Slave 2" → 2 light show:** slave works in opposite with the master.



- **BY CA8 EASY CONTROLLER**
  When used in standalone or master/slave mode we strongly advise you to use the CA-8 "Wired easy controller" or RF/DMX Converter "Wireless easy controller" that can also be used to control several different types of other DMX projectors.
  - **CA-8 wired remote:** Connect the controller to the jack input of the first unit (master).
  - **RF/DMX Converter:** the wireless remote has two parts:
    - **RF-8T:** small RF-transmitter that can control up to 5 effects.
    - **RF/DMX converter base:** small RF-receiver that converts the commands from the RF-remote into a DMX-signal for the BT-W12L10. See the installation manual of the receiver for more information.



RF-8 WIRELESS



CA-8 CONTROLLER

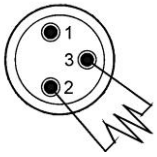
Now you can control all the connected units:

STANDBY BUTTON:
Press this button to start/stop blackout mode on all connected units.
MODE/FUNCTION BUTTONS:

With the MODE button you can select 3 different modes:

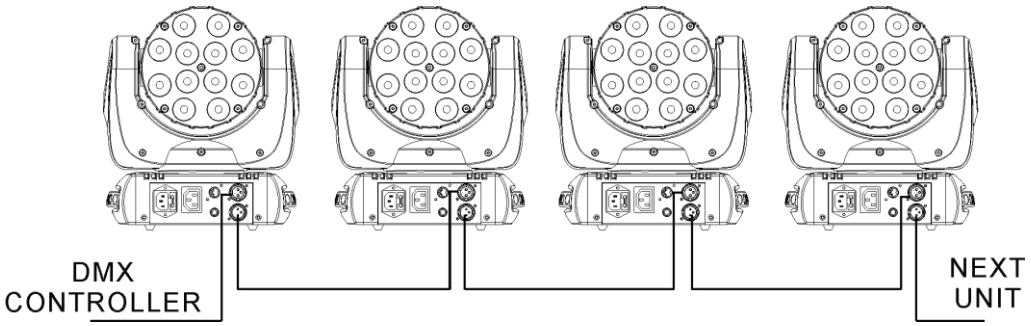
Stand By	Blackout the unit			
Function	1. Sync. Strobe 2. Two-light strobe 3. Sound Strobe	Select Show 1-4	Fade speed - slow Fade speed - fast Fade speed - middle	1.Pan positioning 2.Tilt positioning 3.Dimmer or Color change
Mode	**LED OFF**	**LED blinking**	**LED ON**	**LED FAST blinking**

HOW TO CONNECT THE UNIT BY DMX



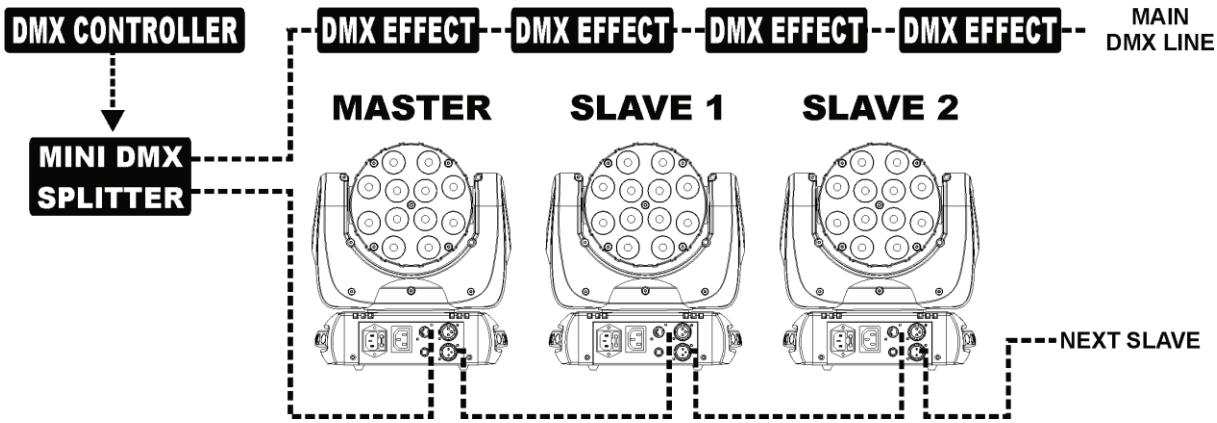
The DMX-protocol is a widely used high speed signal to control intelligent light equipment. You need to "daisy chain" your DMX controller and all the connected light effects with a good quality XLR M/F balanced cable. To prevent strange behavior of the light effects, due to interferences, you must use a 90Ω to 120Ω terminator at the end of the chain. Never use a Y-splitter.

Electrical installation for several units on a DMX line:



Each light effect in the chain must have its proper starting address so it knows which commands from the controller it has to decode.

Electrical installation for two or more units in DMX-master/slave:
In this mode the units will show a synchronized show, working to the rhythm of the beat but you can still control some functions on the master by 1 or 4 DMX-channels.



- To assure proper operation you need an optional "Mini DMX-SPLITTER" to isolate the master/slave line from the main DMX-line, see drawing.

- Connect 2 to maximum 16 units together using good quality balanced microphone cables. The first unit in the chain will act as the master, the other units will act automatically as slaves.
- Set the master to 1MSL or 4MSL channel mode (see previous chapter). Check the DMX-chart below to see the difference between both channel modes.
- For the DMX-controller the master and his slaves can now be considered as 1 virtual effect that needs a start address so it can be controlled as any other DMX-unit in the DMX chain: see “DMX Address” in the chapter “Main Menu” to see how you can set the DMX-start address.
- Make sure that all units are connected to the mains.
- Set the DMX-controller according to the DMX-chart below.
- Done!

Remark: *in order to work well to the rhythm of the music, make sure that the option “Sound State” on the master is set to “On” (see previous chapter)*

HOW TO SET THE RIGHT STARTING ADDRESS:

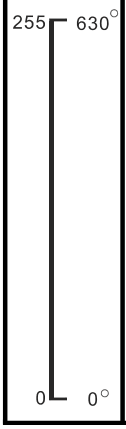
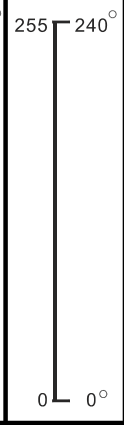
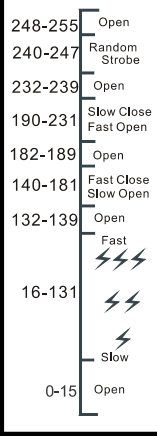
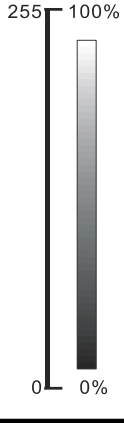
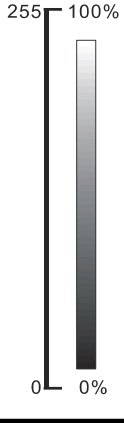
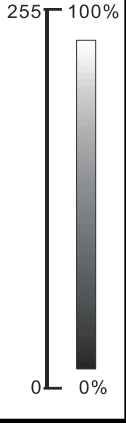
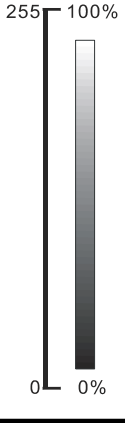
Refer to the previous chapter (DMX-512 address setting) to learn how to set the starting address on this unit. The starting address of each unit is very important. Unfortunately it is impossible to tell you in this user manual which starting addresses you have to use because this completely depends on the controller you will use… So please refer to the user manual of your DMX-controller to find out which starting addresses you must set.

DMX-CONFIGURATION OF BT-W12L10:

1MSL / 4MSL DMX mode

1 MSL Channel Mode	4 MSL Channel Mode			
Ch1	Ch1	Ch2	Ch3	Ch4
Chase	Master Dimmer	Strobe	Color	Movement
248-255 Random Shows	255 Sound Active 100% 008-255 0% 000-007 Blackout 0	248-255 No Strobe 240-247 Sound Strobe Fast 008-239 Slow 000-007 No Strobe	248-255 Sound Active 218-247 Color 8 188-217 Color 7 158-187 Color 6 128-157 Color 5 098-127 Color 4 068-097 Color 3 038-067 Color 2 008-037 Color 1 000-007 White	248-255 Random Movement
188-247 Show 4				188-247 Movement 4
128-187 Show 3				128-187 Movement 3
068-127 Show 2				068-127 Movement 2
008-067 Show 1				008-067 Movement 1
000-007 Blackout				000-007 No Gobo

9CH DMX MODE

Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7	Ch8	Ch9
Pan	Tilt	Strobe	Red	Green	Blue	White	Dimmer	**Function**
								240-255 Stand alone 210-239 No Function 200-209 Reset All 090-199 No Function 080-089 Disable Blackout while Pan/Tilt Move 070-079 Enable Blackout while Pan/Tilt Move 000-069 No Function

12CH/16CH DMX MODE:

12CH	16CH		
			Electronic shutter effect
		0-19	Shutter closed
		20 - 49	Shutter open
		50 - 64	Strobe 1 (fast → slow)
		65 - 69	Shutter open
		70 - 84	Strobe 2: opening pulse (fast → slow)
		85 - 89	Shutter open
		90 - 104	Strobe 3: closing pulse (fast → slow)
		105 - 109	Shutter open
		110 - 124	Strobe 4: random strobe (fast → slow)
		125 - 129	Shutter open
1	**1**	130 - 144	Strobe 5: random opening pulse (fast → slow)
		145 - 149	Shutter open
		150 - 164	Strobe 6: random closing pulse (fast → slow)
		165 - 169	Shutter open
		170 - 184	Strobe 7: burst pulse (fast → slow)
		185 - 189	Shutter open
		190 - 204	Strobe 8: random burst pulse (fast → slow)
		205 - 209	Shutter open
		210 - 224	Strobe 9: sine wave (fast → slow)
		225 - 229	Shutter open
		230 - 244	Strobe 10: burst (fast → slow)
		245 - 255	Shutter open
2	**2**	0-255	**Dimmer**
3	**3**	0-255	**Pan**
4	**4**	0-255	**Pan Fine (Least significant bit)**
5	**5**	0-255	**Tilt**
6	**6**	0-255	**Tilt Fine (Least significant bit)**

7	7		**Fixture control settings** (1)
		0-9	No function
		10-14	Reset entire fixture
		15 - 39	No function
		40 - 44	Pan and tilt speed = NORM
		45 - 49	Pan and tilt speed= FAST
		50 - 54	Pan and tilt speed = SLOW
		55 - 59	No function
		60 - 64	Fan mode FULL
		65 - 69	No function
		70 - 74	Fan mode REGULATED
		75 - 89	No function
		90 - 94	RGB control mode (calibrated RGB) (2)
		95 - 99	No function
		100 - 104	RAW control mode (uncalibrated RGB) (3)
		105 - 109	No function
		110 - 114	Fast dimming, speed of changes unrestricted
		115 - 119	No function
		120 - 124	Smooth dimming, speed of changes restricted slightly
		125 - 129	No function
		130 - 134	Enable Blackout while Pan tilt
		135 - 139	No function
		140 - 144	Disable Blackout while Pan tilt
		145 – 249	No function
		250 - 255	Illuminate display
8	8		**Color wheel effect** (4)
		0-9	Open. RGB color mixing
		10-14	LEE 790 - Moroccan pink
		15 - 19	LEE 157 - Pink
		20 - 24	LEE 332 - Special rose pink
		25 - 29	LEE 328 - Follies pink
		30 - 34	LEE 345 - Fuchsia pink
		35 - 39	LEE 194 - Surprise pink
		40 - 44	LEE 181 - Congo Blue
		45 - 49	LEE 071 - Tokyo Blue
		50 - 54	LEE 120 - Deep Blue
		55 - 59	LEE 079 - Just Blue
		60 - 64	LEE 132 - Medium Blue
		65 - 69	LEE 200 - Double CT Blue
		70 - 74	LEE 161 - Slate Blue
		75 - 79	LEE 201 - Full CT Blue
		80 - 84	LEE 202 - Half CT Blue
		85 - 89	LEE 117 - Steel Blue
		90 - 94	LEE 353 - Lighter Blue

		95 - 99	LEE 118 - Light Blue
		100 - 104	LEE 116 - Medium Blue Green
		105 - 109	LEE 124 - Dark Green
		110 - 114	LEE 139 - Primary Green
		115 - 119	LEE 089 - Moss Green
		120 - 124	LEE 122 - Fern Green
		125 - 129	LEE 738 - JAS Green
		130 - 134	LEE 088 - Lime Green
		135 - 139	LEE 100 - Spring Yellow
		140 - 144	LEE 104 - Deep Amber
		145 - 149	LEE 179 - Chrome Orange
		150 - 154	LEE 105 - Orange
		155 - 159	LEE 021 - Gold Amber
		160 - 164	LEE 778 - Millennium Gold
		165 - 169	LEE 135 - Deep Golden Amber
		170 - 174	LEE 164 - Flame Red
		175 - 179	Open
			Color wheel rotation effect
		180 - 201	Clockwise, fast → slow
		202 - 207	Stop (this will stop wherever the color is at the time)
		208 - 229	Counter-clockwise, slow → fast
		230 - 234	Open
			Random color
		235 - 239	Fast
		240 - 244	Medium
		245 - 249	Slow
		250 - 255	Open
9	**9**	0-255	**Red 0 to 100%**
10	**10**	0-255	**Green 0 to 100%**
11	**11**	0-255	**Blue 0 to 100%**
12	**12**	0-255	**White 0 to 100%**
	13	0-255	**Macro1 to macro 16 (please refer to CH27 of the 28ch DMX mode)**
	14	0-255	**Color macro speed**
	15	0-255	**Pan tilt macro 1 to macro 12 (please refer to CH6 of the 28ch DMX mode)**
	16	0-255	**Pan tilt macro speed (please refer to CH7 of the 28ch DMX mode)**

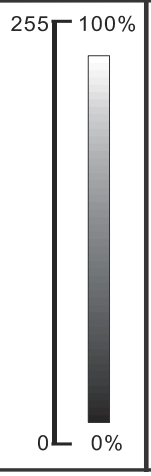
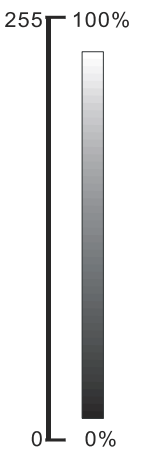
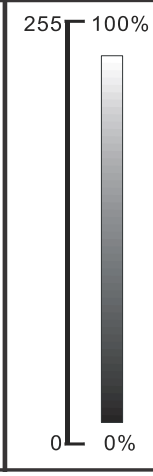
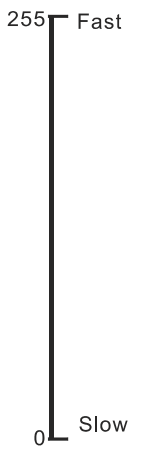
1. The “fixture control settings” functions latency depends on the function delay settings, it could be set as 0s delay or 3s delay, please refer to the “Function delay” paragraph.
2. **RGB** is a calibrated RGB mode using the white balance in the menu that gives slightly less output than **RAW** mode but consistent color balance across fixtures.
3. **RAW** is an uncalibrated RGB mode that gives maximum output and slightly more saturated color, but there may be inconsistency in color balance between fixtures.
   This mode doesn’t take into account of the white balance.
4. The LEE filter color channel (channel 8) takes into account of the white balance in order to get the most accurate color filters wheel independently if the selected mode is RGB or RAW.

28CH DMX MODE

Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7
Pan	Pan Fine	Tilt	Tilt Fine	Pan/Tilt Speed	Pan/Tilt Macro	Pan/Tilt Macro Speed
255 540° 0 0°	255 0	255 270° 0 0°	255 0	255 Slow 0 Fast	**236-255 Macro 12** **216-235 Macro 11** **196-215 Macro 10** **176-195 Macro 9** **156-175 Macro 8** **136-155 Macro 7** **116-135 Macro 6** **096-115 Macro 5** **076-095 Macro 4** **056-075 Macro 3** **036-055 Macro 2** **016-035 Macro 1** **000-015 No effect**	255 Slow 0 Fast

Ch8	Ch9	Ch10	Ch11	Ch12	Ch13	Ch14
Function	Dimmer	**Strobe**	**Red 1**	**Green1**	**Blue 1**	**White1**
240-255 Stand alone 210-239 No Function 200-209 Reset All 090-199 No Function 080-089 Disable Blackout while Pan/Tilt Move 070-079 Enable Blackout while Pan/Tilt Move 000-069 No Function	255 100% 0 0%	248-255 Open 240-247 Random Strobe 232-239 Open 190-231 Slow Close Fast Open 182-189 Open 140-181 Fast Close Slow Open 132-139 Open Fast 16-131 Slow 0-15 Open	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%

Ch15	Ch16	Ch17	Ch18	Ch19	Ch20	Ch21	Ch22
Red 2	**Green2**	**Blue2**	**White2**	**Red 3**	**Green3**	**Blue3**	**White3**
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%

Ch23	Ch24	Ch25	Ch26	Ch27	Ch28
Red 4	**Green4**	**Blue4**	**White4**	**Color**	**Fade speed**
				192-255 Color fade 1~16 128-191 Color macro 1~16 008-127 Color 1~32 000-007 Normal	

MAINTENANCE

- Make sure the area below the installation place is free from unwanted persons during servicing.
- Switch off the unit, unplug the mains cable and wait until the unit has been cooled down.

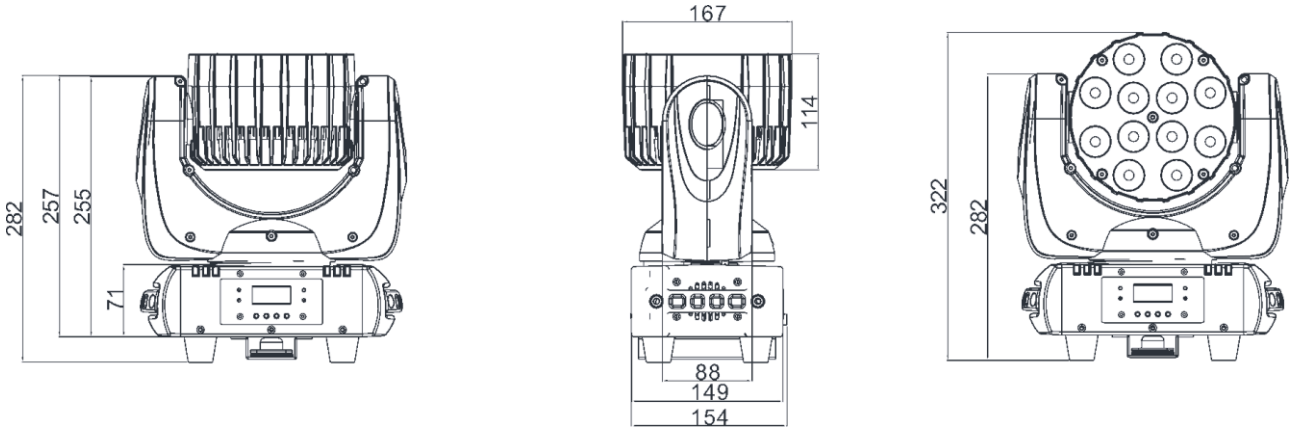
During inspection the following points should be checked:

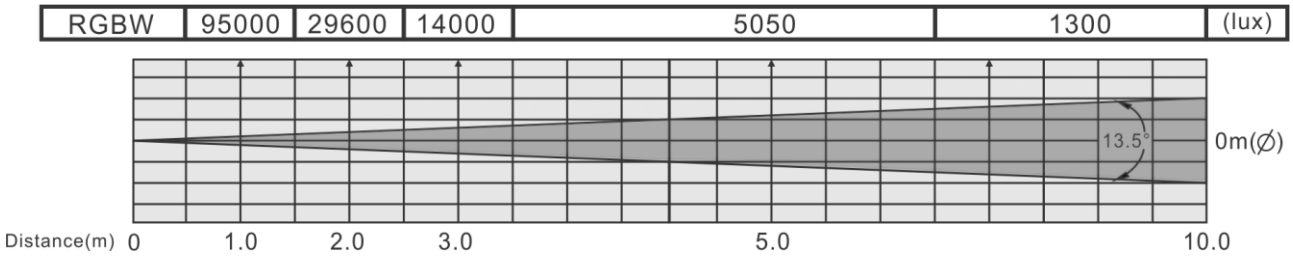
- All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
- Housings, fixations and installations spots (ceiling, truss, suspensions) should be totally free from any deformation.
- When an optical lens is visibly damaged due to cracks or deep scratches, it must be replaced.
- The mains cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.
- In order to protect the device from overheat the cooling fans (if any) and ventilation openings should be cleaned monthly.
- The interior of the device should be cleaned annually using a vacuum cleaner or air-jet.
- The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics.
    - Clean with a soft cloth using normal glass cleaning products.
    - Always dry the parts carefully.

Attention: We strongly recommend internal cleaning to be carried out by qualified personnel!

SPECIFICATIONS

Mains Input:	AC 100 - 240V, 50/60Hz
Power consumption:	150 Watt
Fuse:	250V 6.3A slow blow (20mm glass)
Sound Control:	Internal microphone
DMX connections:	3pin XLR male / female
DMX channels used:	1 / 4 / 9 / 12 / 16 / 28 channels
Lamp:	12x 10W LEDs 4IN1 CREE
Size:	see drawing below
Weight:	6.5 kg





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You can download the latest version of this user manual on our website: www.beglec.com

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